

$f_2(1910)$

$$I^G(J^{PC}) = 0^+(2^{++})$$

OMMITTED FROM SUMMARY TABLE

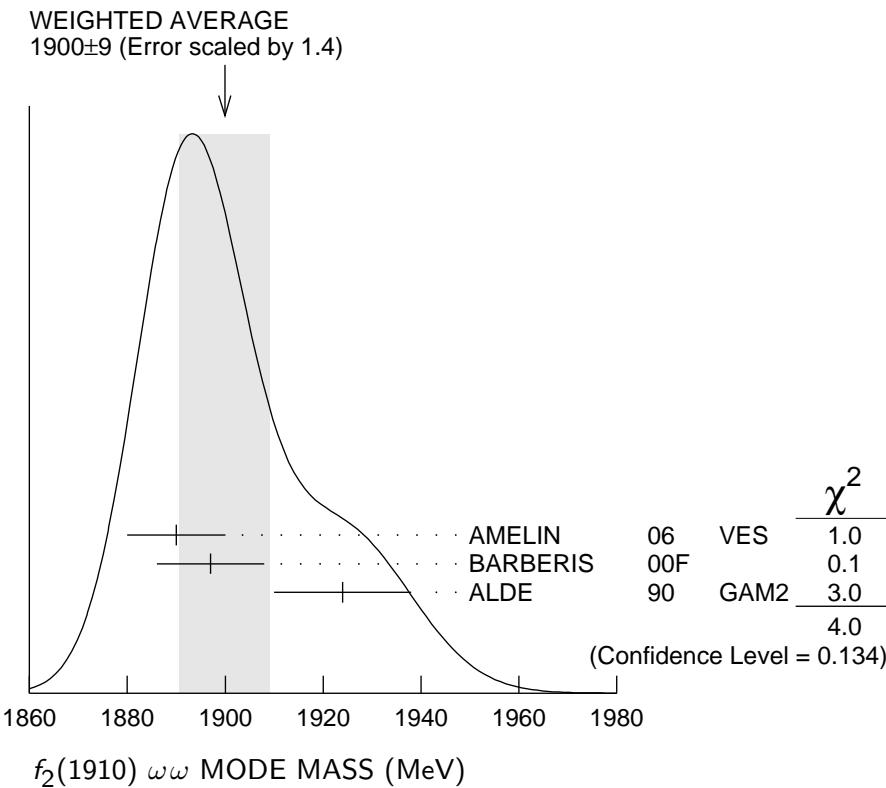
We list here three different peaks with close masses and widths seen in the mass distributions of $\omega\omega$, $\eta\eta'$, and K^+K^- final states. ALDE 91B argues that they are of different nature.

$f_2(1910)$ MASS

$f_2(1910)$ $\omega\omega$ MODE

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
1900± 9 OUR AVERAGE	Error includes scale factor of 1.4. See the ideogram below.		
1890±10	¹ AMELIN 06	VES	$36 \pi^- p \rightarrow \omega\omega n$
1897±11	BARBERIS 00F		$450 pp \rightarrow p_f \omega\omega p_s$
1924±14	ALDE 90	GAM2	$38 \pi^- p \rightarrow \omega\omega n$

¹ Supersedes BELADIDZE 92B.



$f_2(1910)$ $\eta\eta'$ MODE

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
1934±16	¹ BARBERIS 00A		$450 pp \rightarrow p_f \eta\eta' p_s$
• • • We do not use the following data for averages, fits, limits, etc. • • •			
1934±20	² ANISOVICH 00J	SPEC	
1911±10	ALDE 91B	GAM2	$38 \pi^- p \rightarrow \eta\eta' n$

¹ Also compatible with $J^{PC}=1^-+$.

² Combined fit with $\eta\eta$, $\pi\pi$, and $\eta\pi\pi$.

$f_2(1910)$ $K^+ K^-$ MODE

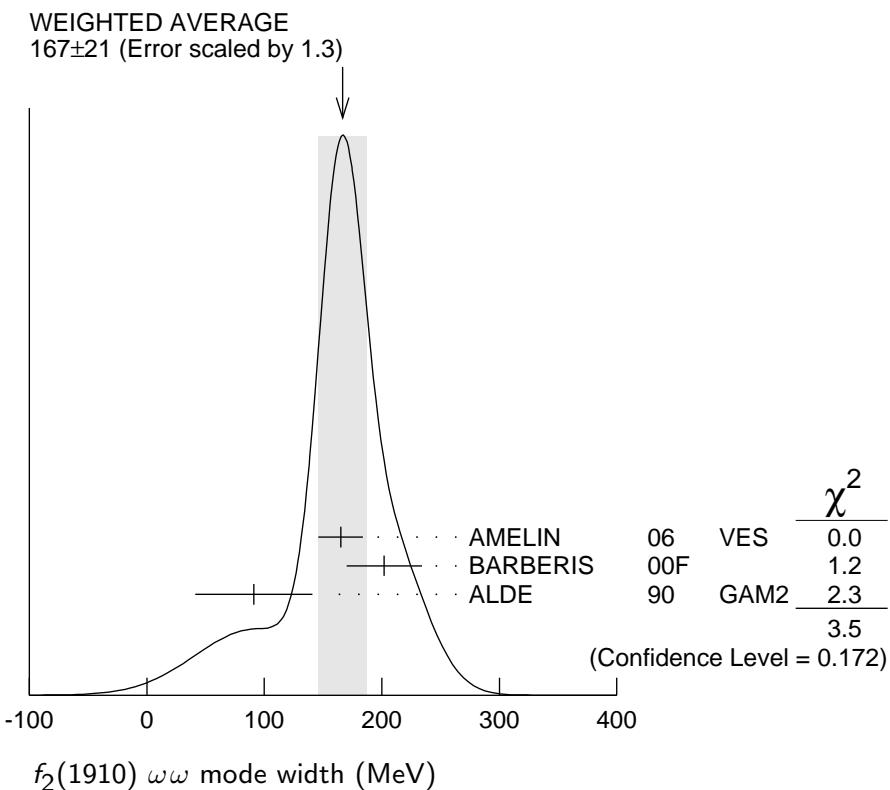
VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •			
1941 \pm 18	¹ AMSLER	06	CBAR $1.64 \bar{p}p \rightarrow K^+ K^- \pi^0$
1 Tentative, could be $f_2(1950)$.			

$f_2(1910)$ WIDTH

$f_2(1910)$ $\omega\omega$ MODE

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
167 \pm 21 OUR AVERAGE	Error includes scale factor of 1.3. See the ideogram below.		
165 \pm 19	¹ AMELIN	06	VES $36 \pi^- p \rightarrow \omega\omega n$
202 \pm 32	BARBERIS	00F	$450 pp \rightarrow p_f \omega\omega p_s$
91 \pm 50	ALDE	90	GAM2 $38 \pi^- p \rightarrow \omega\omega n$

¹ Supersedes BELADIDZE 92B.



$f_2(1910)$ $\eta\eta'$ MODE

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
141 \pm 41	¹ BARBERIS	00A	$450 pp \rightarrow p_f \eta\eta' p_s$
• • • We do not use the following data for averages, fits, limits, etc. • • •			
271 \pm 25	² ANISOVICH	00J	SPEC
90 \pm 35	ALDE	91B	GAM2 $38 \pi^- p \rightarrow \eta\eta' n$

¹ Also compatible with $J^{PC}=1^-+$.

² Combined fit with $\eta\eta$, $\pi\pi$, and $\eta\pi\pi$.

$f_2(1910)$ $K^+ K^-$ MODE

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
$\bullet \bullet \bullet$ We do not use the following data for averages, fits, limits, etc. $\bullet \bullet \bullet$			
120 ± 40	AMSLER	06	CBAR $1.64 \bar{p}p \rightarrow K^+ K^- \pi^0$

$f_2(1910)$ DECAY MODES

Mode	Fraction (Γ_i/Γ)
$\Gamma_1 \pi^0 \pi^0$	
$\Gamma_2 K^+ K^-$	seen
$\Gamma_3 K_S^0 K_S^0$	
$\Gamma_4 \eta \eta$	seen
$\Gamma_5 \omega \omega$	seen
$\Gamma_6 \eta \eta'$	seen
$\Gamma_7 \eta' \eta'$	
$\Gamma_8 \rho \rho$	seen
$\Gamma_9 a_2(1320) \pi$	seen
$\Gamma_{10} f_2(1270) \eta$	seen

$f_2(1910)$ BRANCHING RATIOS

$\Gamma(K^+ K^-)/\Gamma_{\text{total}}$

Γ_2/Γ

VALUE	DOCUMENT ID	TECN	COMMENT
seen	¹ AMSLER	06	CBAR $1.64 \bar{p}p \rightarrow K^+ K^- \pi^0$

¹ Tentative, could be $f_2(1950)$.

$\Gamma(\pi^0 \pi^0)/\Gamma(\eta \eta')$

Γ_1/Γ_6

VALUE	DOCUMENT ID	TECN	COMMENT
$\bullet \bullet \bullet$ We do not use the following data for averages, fits, limits, etc. $\bullet \bullet \bullet$			

<0.1 ALDE 89 GAM2 $38\pi^- p \rightarrow \eta \eta' n$

$\Gamma(K_S^0 K_S^0)/\Gamma(\eta \eta')$

Γ_3/Γ_6

VALUE	CL%	DOCUMENT ID	TECN	COMMENT
$\bullet \bullet \bullet$ We do not use the following data for averages, fits, limits, etc. $\bullet \bullet \bullet$				

<0.066 90 BALOSHIN 86 SPEC $40\pi p \rightarrow K_S^0 K_S^0 n$

$\Gamma(\eta \eta)/\Gamma(\eta \eta')$

Γ_4/Γ_6

VALUE	CL%	DOCUMENT ID	TECN	COMMENT
$\bullet \bullet \bullet$ We do not use the following data for averages, fits, limits, etc. $\bullet \bullet \bullet$				

<0.05 90 ALDE 91B GAM2 $38\pi^- p \rightarrow \eta \eta' n$

$\Gamma(\omega \omega)/\Gamma(\eta \eta')$

Γ_5/Γ_6

VALUE	DOCUMENT ID	COMMENT
$\bullet \bullet \bullet$ We do not use the following data for averages, fits, limits, etc. $\bullet \bullet \bullet$		

2.6 ± 0.6 BARBERIS 00F 450 $p p \rightarrow p_f \omega \omega p_s$

$\Gamma(\eta'\eta')/\Gamma_{\text{total}}$				Γ_7/Γ
<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
$\bullet \bullet \bullet$ We do not use the following data for averages, fits, limits, etc. $\bullet \bullet \bullet$				
probably not seen	BARBERIS 00A		$450 \text{ } pp \rightarrow p_f \eta' \eta' p_s$	
possibly seen	BELADIDZE 92D VES		$37 \pi^- p \rightarrow \eta' \eta' n$	

$\Gamma(\rho\rho)/\Gamma(\omega\omega)$				Γ_8/Γ_5
<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>COMMENT</u>		
$\bullet \bullet \bullet$ We do not use the following data for averages, fits, limits, etc. $\bullet \bullet \bullet$				
2.6 ± 0.4	BARBERIS 00F	$450 \text{ } pp \rightarrow p_f \omega\omega p_s$		

$\Gamma(f_2(1270)\eta)/\Gamma(a_2(1320)\pi)$				Γ_{10}/Γ_9
<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
0.09 ± 0.05	¹ ANISOVICH 11	SPEC	$0.9\text{--}1.94 \text{ } p\bar{p}$	

¹ Reanalysis of ADOMEIT 96 and ANISOVICH 00E.

$f_2(1910)$ REFERENCES

ANISOVICH	11	EPJ C71 1511	A.V. Anisovich <i>et al.</i>	(LOQM, RAL, PNPI)
AMELIN	06	PAN 69 690	D.V. Amelin <i>et al.</i>	(VES Collab.)
		Translated from YAF 69 715.		
AMSLER	06	PL B639 165	C. Amsler <i>et al.</i>	(CBAR Collab.)
ANISOVICH	00E	PL B477 19	A.V. Anisovich <i>et al.</i>	
ANISOVICH	00J	PL B491 47	A.V. Anisovich <i>et al.</i>	(RAL, LOQM, PNPI+)
BARBERIS	00A	PL B471 429	D. Barberis <i>et al.</i>	(WA 102 Collab.)
BARBERIS	00F	PL B484 198	D. Barberis <i>et al.</i>	(WA 102 Collab.)
ADOMEIT	96	ZPHY C71 227	J. Adomeit <i>et al.</i>	(Crystal Barrel Collab.)
BELADIDZE	92B	ZPHY C54 367	G.M. Beladidze <i>et al.</i>	(VES Collab.)
BELADIDZE	92D	ZPHY C57 13	G.M. Beladidze <i>et al.</i>	(VES Collab.)
ALDE	91B	SJNP 54 455	D.M. Alde <i>et al.</i>	(SERP, BELG, LANL, LAPP+)
		Translated from YAF 54 751.		
Also		PL B276 375	D.M. Alde <i>et al.</i>	(BELG, SERP, KEK, LANL+)
ALDE	90	PL B241 600	D.M. Alde <i>et al.</i>	(SERP, BELG, LANL, LAPP+)
ALDE	89	PL B216 447	D.M. Alde <i>et al.</i>	(SERP, BELG, LANL, LAPP)
Also		SJNP 48 1035	D.M. Alde <i>et al.</i>	(BELG, SERP, LANL, LAPP)
		Translated from YAF 48 1724.		
BALOSHIN	86	SJNP 43 959	O.N. Baloshin <i>et al.</i>	(ITEP)
		Translated from YAF 43 1487.		